DEPARTMENT OF THE NAVY
OFFICE OF THE SECRETARY
WASHINGTON, D.C. 20350-1000

SECNAVINST 5200.32A
ASN(RD&A)
3 MAY 1993

SECNAV INSTRUCTION 5200.32A

From: Secretary of the Navy

Subj: ACQUISITION MANAGEMENT POLICIES AND PROCEDURES FOR COMPUTER RESOURCES

Ref:
(a) DODD 5000.1 of 23 Feb 91, "Defense Acquisition"
(b) DODI 5000.2 of 23 Feb 91, "Defense Acquisition Management Policies and Procedures"
(c) DOD 5000.2-M of 23 Feb 91, "Defense Acquisition Management Documentation and Reports"
(d) SECNAVINST 5000.2A, "Implementation of Defense Acquisition Management Policies, Procedures, Documentation, and Reports"
(e) DODD 8120.1 of 14 Jan 93, "Life-Cycle Management (LCM) of Automated Information Systems (AISs)" (NOTAL)
(f) DODI 8120.2 of 14 Jan 93, "Automated Information System (AIS) Life-Cycle Management (LCM) Process, Review, and Milestone Approval Procedures" (NOTAL)
(g) SECNAVINST 5231.1C, "Life Cycle Management Policy and Approval Requirements for Information System Projects" (NOTAL)
(h) DOD-STD-2167A, "Defense System Software Development" (NOTAL)
(i) DOD-STD-2168, "Defense System Software Quality Program" (NOTAL)
(j) SECNAVINST 5239.2, "Department of the Navy Automated Information Systems (AIS) Security Program" (NOTAL)
(k) SECNAVINST 5420.188C, "Navy and Marine Corps Program Decision Meetings (PDM)" (NOTAL)
(l) MIL-STD-973, "Configuration Management" (NOTAL)
(m) MIL-STD-188 Series, "Military Telecommunications Standards" (NOTAL)
(n) MIL-STD-882, "System Safety Program Requirements" (NOTAL)
(o) DOD-STD-881, "Work Breakdown Structures for Defense Material Items"
(p) ASN(RD&A) Memorandum of 20 Apr 92, "April 1992 Edition of the Acquisition Planning Guide (APG)" (NOTAL)
(q) MIL-STD-499, "Engineering Management" (NOTAL)
(r) MIL-STD-2036, "General Requirements for Electronic Equipment Specifications" (NOTAL)

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(s) MIL-STD-5400, "Requirements for Airborne Electronic Equipment" (NOTAL)
(t) DOD 4120.3-M of Aug 78 "Defense Standardization and Specification Program Policies, Procedures, and Instructions" (NOTAL)

Encl: (1) Acronyms and Definitions
(2) Computer Resources Checklist
(3) Computer Resources Management Cross-Reference Guide

1. Purpose

a. To provide policy for acquiring Department of the Navy (DON) computer resources and to establish the internal management processes to comply with references (a) through (d).

b. To authorize the promulgation of the Open System Interface Standards List (OSISL) and the Products Accepted List (PAL) in SECNAVNOTE 5200, Subj: Acquisition Management Policies and Procedures for Computer Resources, to facilitate the acquisition of computer resources in accordance with this instruction.

2. Cancellation. SECNAVINST 5200.32.

3. Definitions. Enclosure (1) provides definitions for key terms and acronyms used in this instruction.

4. Background. Most DON systems have become fundamentally dependent on computer resources. For the past 30 years, the DON has directed the use of Navy-developed standard computer resources as Government Furnished Equipment under the Standard Embedded Computer Resources (SECR) program. In recognition of the rapid growth of commercial technology, the increasing use of computer resources, and the high cost of requiring full military specification for computer resources, the Department of Defense (DoD) and DON policy is emphasizing the use of commercial-off-the-shelf (COTS) and other nondevelopmental items (NDI) where consistent with operational requirements. In implementing the policy, the DON will employ an open systems approach which emphasizes the use of open system interface standards and widely available commercial computer resource products that meet system requirements and provide a growth path to meet anticipated and unanticipated requirements. This approach should allow the DON to more effectively benefit from the technology innovation and cost competitiveness inherent in the commercial computer resources market. Further, this approach will facilitate the adoption of business and systems engineering strategies to reduce acquisition development time and costs. For some systems, a transition to this approach will be required, wherein current computer resources will continue to be supported and the open systems approach will be used for modifications and upgrades.

5. Applicability

a. This instruction applies to DON organizations, including activities operating on a reimbursable or cost-recovery basis. For joint programs, highly sensitive classified programs, and programs for which DON is providing acquisition services for non-DoD agencies, see references (b) and (d).

b. This instruction applies to all acquisition programs that:

(1) Are managed under references (a), (b), (c), and (d); and,

(2) Include any computer resources meeting the criteria of part 6, section D, paragraph 1b of reference (b).

c. Computer resources not meeting the criteria of paragraph 5b shall be managed in accordance with references (e), (f), and (g). Reference (g) also contains the procedure for obtaining Warner Amendment exemptions for programs acquired under 5b.

d. Programs that have completed Milestone II as of the effective date of this instruction may continue under previous policy until the next modification or upgrade.

e. In the event of conflicts with the requirements of this instruction and references (a) through (d), references (a) through (d) take precedence. The provisions of this instruction will remain in effect until included in a future revision of reference (d).

6. Policy. DON policy is for computer resources to be designed, procured, and supported based on an open systems approach. Policy no longer requires programs to use products developed under the SECR program. However, SECR used in deployed systems and in systems currently being procured will continue to be supported until these systems transition to open systems. In applying the policy of this instruction, the overriding consideration, as expressed in references (a) through (d), is building systems that satisfy formally expressed operational requirements.

a. Systems shall be designed to incorporate computer resources which have been developed using an open systems approach. The selection of open system interface standards and computer resource products should follow a thorough systems engineering process that includes the balancing of acquisition requirements (e.g., cost, competition, market availability, commercial standardization, maturity) with system requirements (e.g.; performance, including logistics supportability; military environment; configuration management; interoperability; security).

b. Except when treaty organization standards are required or when federal standards are required by law or under law, selection of open system interface standards (excluding chip/internal module

level mechanical and electrical interfaces) for system development, modification, or upgrade shall be made from the following, in priority order:

(1) Those standards for which the underlying content is controlled by a recognized nongovernmental standards body (e.g., International Organization for Standardization (ISO), International Electrotechnical Commission (IEC), Telecommunications Standardization Bureau (TSB), American National Standards Institute (ANSI), Institute of Electrical and Electronics Engineers (IEEE), Electronic Industries Association (EIA), Airlines Electronic Engineering Committee (AEEC), American Institute of Aeronautics and Astronautics (AIAA), Society of Automotive Engineers (SAE));

(2) Those standards controlled by federal government standards bodies (e.g., National Institute of Standards and Technology (NIST), National Communications System (NCS)), international military standards organizations, or the DoD Standardization Program;

(3) Those standards controlled by special purpose working groups chartered at the Component Acquisition Executive-level or higher (e.g., a joint-service group for a warfare domain, such as, Joint Integrated Avionics Working Group (JIAWG));

(4) Unique interfaces.

Standards selected under the priority of paragraph 6b(4) shall be listed, along with supporting rationale for their selection, in the Acquisition Strategy Report (ASR).

c. Selection of computer resource products shall be made from the following, in priority order:

(1) Widely available commercial computer resources;

(2) Ruggedized or militarized versions of commercial products meeting paragraph 6c(1) (This priority includes items listed on the PAL);

(3) Other NDI (This priority includes SECR not listed on the PAL);

(4) New development.

NOTE: The provisions of 6b and 6c are to be applied at the appropriate interface level(s) as determined by the Program Manager (PM) based upon the open system architecture selected, adapted, or developed as the result of a system engineering process.

d. Software developed, modified, or maintained by DON shall comply with the programming language policy of reference (b), change 1.

e. Computer Resources Life Cycle Management Plan (CRLCMP). A CRLCMP shall be developed for all acquisition programs. Smaller programs may combine the CRLCMP with the Integrated Logistics Support Plan (ILSP) at the PM's discretion in accordance with reference (b). The initial CRLCMP should be drafted during Phase I, approved by Milestone II, and updated, as necessary, to be current. The CRLCMP may be tailored to fit the complexity or simplicity and the unique characteristics of the project.

f. Integrated System Development

(1) Reserve Capacity. Reserve capacities for computer resources shall be addressed in the system design to allow for growth beyond anticipated requirements. The plan for developing and tracking reserve capacities should be documented in the CRLCMP.

(2) Software Engineering Environment (SEE)

(a) SEE components (e.g., Computer Aided Software Engineering, software development/documentation tools, automated test tools) should be selected for acquisition programs that involve a significant software development effort. These SEE components should be widely available commercial computer resources to the maximum extent practicable. The SEE components should provide automated requirements tracking, reference (h) compatible documentation, metrics collection and evaluation tools, software design tools, and life-cycle management aids.

(b) SEE components essential for Life-Cycle Management/Post-Deployment Software Support (PDSS), including the data rights and documentation for those components, shall be identified in the CRLCMP.

(3) Software Development and Documentation

(a) Acquisition programs currently using DOD-STD-1679 (NOTAL), -1679A (NOTAL), or -2167 (NOTAL) for software development and documentation may continue to do so, where cost effective.

(b) NDI software to be included in deliverable products shall be identified along with the appropriate level of proprietary rights, data rights, licenses, and warranties. Escrow-account provisions should be defined to support Government interests.

(c) Risks associated with non-deliverable software items shall be addressed and appropriate mitigation plans developed as necessary.

g. Software Testing and Acceptance. In addition to the requirements in references (b), (c), (d), (h), and (i), PMs shall establish software test criteria and software acceptance criteria and shall document appropriate tests and test limits in appropriate test planning documents and specifications. Government acceptance

of software shall be predicated on the satisfaction of these established criteria.

h. Information System Security (INFOSEC). Computer resources that store or handle data designated as sensitive or higher shall be protected by the continuous employment of security protective measures throughout the acquisition life cycle, in accordance with the policies identified in references (b) and (j).

7. Policy Administration

a. Acquisition program compliance with this policy will be effected as part of the milestone decision review process. Any interface selected under priority of paragraph 6b(4) will be appropriately addressed in the ASR and at Program Decision Meetings (PDM) (see reference (k)), in accordance with enclosure (2). Approval of an ASR or Acquisition Decision Memorandum (ADM), citing applicable items of enclosure (2), constitutes policy compliance.

b. For convenience, a Computer Resources Management Cross-Reference Guide, assembled from references (b) through (d), (h) through (j), and (l) through (s), is provided in enclosure (3).

8. Actions/Responsibilities. DON organizations shall review and update directives for conformance with this instruction. In addition:

a. Assistant Secretary of the Navy (Research, Development and Acquisition) (ASN(RD&A)) shall:

(1) Oversee the DON acquisition process and promote implementation of the policies of this instruction.

(2) Publish the OSISL and PAL as a SECNAVNOTE.

(3) Direct the content of the PAL.

b. Deputy Assistant Secretary of the Navy for Command, Control, Communications, Computers, and Intelligence/Electronic Warfare/Space, Office of ASN(RD&A), shall monitor and advise on the implementation of this instruction.

c. Chief of Naval Operations (CNO)/Commandant of the Marine Corps (CMC), as appropriate, shall:

(1) Ensure that this policy is addressed as part of the overall process of requirements definition for system new starts, modifications, and upgrades.

(2) Plan, program, and budget to support the administration of this instruction and the transition from SECR to open systems.

(3) Identify relevant security requirements in appropriate acquisition documents (e.g., Operational Requirements Document).

(4) Neither plan for, nor program funds to modify/repackage/remanufacture existing DON-unique Instruction Set Architectures, languages, or language implementations beyond 1 January 1996, or before as directed. (Exceptions will be allowed only in those instances where use or modification of DON-unique computer resources is the most cost-effective implementation for a specific weapons system modification or upgrade. Cost will be borne by the weapon system sponsor, and pre-approval by ASN(RD&A) is required.)

d. Commander, Space and Naval Warfare Systems Command (COMSPAWARSYSCOM) shall, in coordination with Commander, Marine Corps Systems Command (COMMARCORSYSCOM):

(1) Provide DON representation for the Joint Logistics Commanders (JLC) Joint Policy Coordinating Group (JPCG) on Computer Resources Management (CRM). Provide resources and a billet for JLC-JPCG-CRM Technical Support Office. Coordinate DON participation in JLC-JPCG-CRM computer resources working groups.

(2) Coordinate, with Developing Agents (DA), DON participation in governmental and nongovernmental standards bodies in areas of mutual interest.

(3) Provide technical and staff support to the ASN(RD&A) as directed.

(4) Perform custodial responsibilities assigned by reference (t) for the Mission Critical Computer Resources (MCCR) standardization area.

(5) Use informational copies of CRLCMPs to build and maintain a DON computer resource usage database.

(6) Update the OSISL based on DAs' inputs. Update the PAL as directed by ASN (RD&A).

e. DAs (Commanders, Systems Commands; Program Executive Officers; and Direct Reporting Program Managers) shall:

(1) Provide support for participation in JLC-JPCG-CRM working groups.

(2) Ensure compliance with the policy of this instruction by reporting program managers.

(3) Ensure technical and managerial personnel are trained to employ business and engineering approaches to maximize the use of widely available commercial computer resources and of open system interface standards in systems acquisition.

(4) Structure computer resource interface standards and product development activities to promote open system approaches.

(5) Develop domain specific architectures and select profiles of open system interface standards to maximize commonality within and across assigned acquisition programs.

(6) In their warfare/acquisition area of responsibility, approve and identify to ASN (RD&A), copy to COMSPAWARSYSCOM (Code 224), those standards meeting the criteria of paragraphs 6b(1), 6b(2), or 6b(3) appropriate for inclusion in the OSISL.

(7) Manage participation with governmental and nongovernmental standards bodies for assigned warfare/acquisition domains. Coordinate efforts with COMSPAWARSYSCOM.

(8) Assign points of contacts for exchange of information to assist COMSPAWARSYSCOM (Code 224)/COMMARCORSYSCOM (Code C20) in meeting the responsibilities identified in paragraph 8d.

f. Program Manager's Offices shall:

(1) Acquire computer resources in accordance with this instruction.

(2) In accordance with reference (j), manage INFOSEC certification and accreditation activities, related plans, and documentation throughout the system life cycle.

(3) Provide information copies of approved and updated Navy/Marine Corp CRLCMPs to COMSPAWARSYSCOM (Code 224)/COMMARCORSYSCOM (Code C20), as appropriate.

9. Reports. The reporting requirements contained in this instruction are exempt from reports control by SECNAVINST 5214.2B.

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Deputy Assistant Secretary
of the Navy (C4I/EW/SPACE)

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Acronyms and Definitions

Acronyms

ADM	Acquisition Decision Memorandum
ASR	Acquisition Strategy Report
CRLCMP	Computer Resources Life-Cycle Management Plan
DA	Developing Agent
DON	Department of the Navy
ILSP	Integrated Logistics Support Plan
INFOSEC	Information System Security
JLC	Joint Logistics Commanders
OSISL	Open System Interface Standards List
PAL	Products Accepted List
PDM	Program Decision Meeting
PM	Program Manager
PDSS	Post-Deployment Software Support
SECR	Standard Embedded Computer Resources
SEE	Software Engineering Environment

Definitions [Source]

1. Acquisition Programs. A directed, funded effort that is designed to provide a new or improved materiel capability in response to a validated need. [DoDI 5000.2]

2. Appropriate Interface Level. The choice of the "appropriate interface level" is a PM's decision. Based on systems engineering assessments, PMs (or designated agents) may select interfaces at several levels of integration (e.g., hardware: board/module level, equipment level, system level, or intra-platform; software: operating system, utilities, application services, or application programs). In many cases, the interface level chosen corresponds to the level at which a selected computer resource product is a widely available commercial computer resource. The level may be adjusted based on logistic support, product improvement plans, and other system engineering concerns. While the board/module level of interface is not specifically referenced in this instruction, use or selection of interface standards at this level is encouraged when consistent with system requirements.

3. Commercial Product. A commercial product is a nondevelopmental item that has been produced for sale in the commercial marketplace. [DODI 5000.2]

4. Computer Resources. The totality of computer hardware, firmware, software, personnel, documentation, supplies, services, and support services applied to a given effort. [DoDI 5000.2] (This definition includes interfaces.)

5. Computer Resource Products. Computer resources, less any interface standards or specifications which they implement. This

definition is provided to permit separate consideration of interface standards and the products which implement or use those standards.

6. Computer Software (or Software). A combination of associated computer instructions and computer data definitions required to enable the computer hardware to perform computational or control functions. [DoDI 5000.2]

7. Computer Software Documentation (or Documentation). Technical data or information, including computer listings and printouts, which documents the requirements, design, or details of computer software, explains the capabilities and limitations of the software, or provides operation instructions for using or supporting computer software during the software's operational life. [DoDI 5000.2]

8. Configuration Management. The technical and administrative direction and surveillance actions taken to identify and document the functional and physical characteristics of a configuration item; to control changes to a configuration item and its characteristics; and to record and report change processing and implementation status. [DoDI 5000.2]

9. Developing Agent (DA). For the purposes of this instruction, the Developing Agent is the Commander, Systems Command; Program Executive Officer; or Direct Reporting Program Manager responsible for a system.

10. Firmware. The combination of a hardware device and computer instructions or computer data that reside as read-only software on the hardware device. The software cannot be readily modified under program control. [DoDI 5000.2]

11. Nondevelopmental Item. Nondevelopmental means "not requiring development." Nondevelopmental items include:

a. Any item available in the commercial marketplace;

b. Any previously developed item in use by a Federal, State, or local agency of the United States or a foreign government with which the United States has a mutual defense cooperation agreement;

c. Any item described in paragraph a or b, above, that requires only minor modification in order to meet the requirements of the procuring agency; or

d. Any item currently being produced that does not meet the requirements of paragraph a, b, or c, above, solely because the item is not yet in use or is not yet available in the commercial marketplace. [DoDI 5000.2]

12. Open System. A system that implements sufficient open specifications for interfaces, services, and supporting formats to

enable properly engineered components to be used across a wide range of systems with minimal changes, to interoperate with other components on local and remote systems, and to interact with users in a style which facilitates portability.

13. Open System Architecture. A physical and logical organization of system functions, structures, and operations base on open system interface standards to meet requirements.

14. Open System Interface Standards List (OSISL). A listing of nongovernment and government computer resources interface standards (current or proposed) that facilitate open system approaches. The interface standards listed meet the criteria of paragraph 6b(1), 6b(2), or 6b(3) of this instruction. The OSISL is issued as part of a SECNAVNOTE 5200, Subj: Acquisition Management Policies and Procedures for Computer Resources.

15. Post-Deployment Software Support (PDSS). Those software support activities that occur during the deployment phase of the system life-cycle. [DoDI 5000.2]

16. Products Accepted List (PAL). A listing of DON-developed or acquired computer resources that may be used to facilitate the transition to open systems. The products listed meet the criteria of paragraph 6c(1) or 6c(2) of this instruction and use standard interfaces meeting the criteria of paragraph 6b(1). The PAL is issued as part of SECNAVNOTE 5200.

17. Software Support. The sum of all activities that take place to ensure that implemented and fielded software continues to fully support the operational mission of the system. Software support includes predeployment software support and post-deployment software support. [DoDI 5000.2]

18. Standard Embedded Computer Resources (SECR). Standard Embedded Computer Resources are DON-developed military specified products (e.g., AN/AYK-14, AN/UYK-43, or AN/UYK-44) which were required under previous policy for use in certain applications.

19. System. A composite of equipment, skills, and techniques capable of performing or supporting an operational role. A complete system includes all equipment, related facilities, items, material, software, services, and personnel required for its operation and support to the degree necessary for self-sufficient use in its intended operational environment.

20. Technical Data. Recorded information regardless of form or character (such as manuals and drawings) of a scientific or technical nature. Computer programs and related software are not included in the definition of technical data; documentation of computer programs and related software is included. Also excluded are financial data or other information related to contract administration. [DoDI 5000.2]

21. Weapon System. Items that can be used directly by the armed forces to carry out combat missions and that cost more than $100,000 or for which the eventual total procurement cost is more than $10,000,000. Such term does not include commercial items sold in substantial quantities to the general public (see Title 10, United States Code, Section 2403, "Major weapon systems: contractor guarantees"). [DoDI 5000.2]

22. Widely Available Commercial Computer Resources. A computer resource product, at the level of procurement required by the acquiring command, that meets one or more of the following criteria:

a. Is available from at least two independent sources. These sources may be two or more contractors independently licensed to manufacture and sell the particular computer resource by a third contractor who owns the data rights. Or, these sources may be two or more independent prime contractors which provide functionally equivalent products (e.g., VME BUS implementations).

b. Is continuously sourced by DON, i.e., competed at least every 4 years and runs identical application software on an upwardly compatible basis (e.g., DTC-2, TAC-3 and follow-ons).

c. Implements an interface standard that meets the criteria of SECNAVINST 5200.32A paragraph 6b(1). This is to provide for the selection of new products implementing planned or recently approved interfaces.

d. Has only one source, but a large commercial market determines the price and DON will not carry the burden of modifying, upgrading, or supporting the product.

COMPUTER RESOURCES CHECKLIST

The following computer resources items are appropriate for consideration within the Program Decision Meeting (PDM) process. Use the Acquisition Strategy Report (ASR) to document exceptions to policy.

Area	Item	MS 0	MS I	MS II	MS III	MS IV
Congressional/ OSD Direction/ Statute	Identify any Congressional or OSD direction or statute which precludes compliance with DON computer resources policy.	X	X	X	X	X
Interface Standards	Identify and provide rationale for selection of unique interfaces. (Those interfaces selected under SECNAVINST 5200.32A, paragraph 6b(4)).		X	X	X	X
DoD Computer Language Policy	Discuss any non-compliance with DON language policy for which approved waivers have not been obtained. Have waiver requests been submitted?		X	X	X	X

KEY MANAGEMENT AREAS	REFERENCE
DON Acquisition for Non-DoD Agencies	SECNAVINST 5000.2A, Part 2, Paragraph C: 6, Programs of Other Non DoD U.S. Government Agencies
Human Factors	DODI 5000.2/SECNAVINST 5000.2A Part 6, Section H: 3a(2), Safety
Human Systems Integration	DODI 5000.2/SECNAVINST 5000.2A Part 7, Section B: 3f, Safety 3g, Test & Evaluation
Infrastructure Support	DODI 5000.2/SECNAVINST 5000.2A Part 7, Section C: 3a, MIL-STD-188 Series (reference (m)) 3i, Standardization (GOSIP)
Integrated Logistics Support	DODI 5000.2/SECNAVINST 5000.2A Part 7, Section A: 3c, Computer Resources 3g, Supportability
Integrated Logistics Support Elements	DODI 5000.2 Part 7, Section A, Attachment 1: 7, Computer Resources
Integrated Logistics Support Considerations at Milestone Decision Points	DODI 5000.2 Part 7, Section A, Attachment 2: 2d, Software Support 2g, Hardware/Software 4f, Support Plans (CRLCMP) 4p(6), Competitive Maintenance
Joint Programs	DODI 5000.2, Change 1/SECNAVINST 5000.2A Part 12, Section B: 3c, Lead Component Responsibilities 3e, Joint Program Management
Non-Acquisition Category (NON-ACAT) Program Definition Document (NAPDD) (FORMAT)	SECNAVINST 5000.2A Part 5, Section C, Attachment 1: 4, Hardware/Software
Nondevelopmental Items	DODI 5000.2, Change 1/SECNAVINST 5000.2A Part 6, Section L: 4a, Requirements 4c, Logistics Support

KEY MANAGEMENT AREAS	REFERENCE
Production Readiness Review	DODI 5000.2 Part 6, Section O, Attachment 1: 1d, Standardization 4d, Sole Source Items 4g(3), Multi-sourcing
Program Objectives and Baselines	DODI 5000.2/SECNAVINST 5000.2A Part 11, Section A: 3e(2)(c), Software Maturity
Program Protection	DODI 5000.2/SECNAVINST 5000.2A Part 5, Section F: All paragraphs, Operations Security
Quality	DODI 5000.2/SECNAVINST 5000.2A Part 6, Section P: 3d, Critical Functions 3h, DOD-STD-2168 (reference (i))
Reliability and Maintainability	DODI 5000.2/SECNAVINST 5000.2A Part 6, Section C: 2a(2), Hardware/Software 3b(3), Single Point Failures 3c(1)(a), Stress Testing 3e, Software Maintainability 3g, Reliability Testing
Risk Management	DODI 5000.2/SECNAVINST 5000.2A Part 5, Section B: 3a(2)(b), Design Events
Science and Technology Development and Transition	DODI 5000.2, Change 1/SECNAVINST 5000.2A Part 5, Section C: 2c, Commercial Technology 2e, Hardware/Software Prototyping 3e(2),(3), Emerging Technology 3f(2)(a), Prototyping/Technology
Selection of Contractual Sources	DODI 5000.2/SECNAVINST 5000.2A Part 10, Section B: 3g(6)(a), Phase I - Use of Standards 3g(6)(c), Phase II & III - Use of Standards
Special Access Programs	DODI 5000.2, Change 1 Part 2, Paragraph C: 4, Highly Sensitive Classified Programs
Systems Engineering	DODI 5000.2 Part 6, Section A: 2a(3), Hardware/Software 3a(1), DOD-STD-2167A (reference (h)) 3c, Technical Discipline Reference

KEY MANAGEMENT AREAS	REFERENCE
System Safety, Health Hazards, and Environmental Impact	DODI 5000.2/SECNAVINST 5000.2A Part 6, Section I: 2c, Software Quality 2d, MIL-STD-882 (reference (n))
System Security	DODI 5000.2 Part 6, Section J: All paragraphs SECNAVINST 5239.2, reference (j)
Technical Data Management	DODI 5000.2/SECNAVINST 5000.2A Part 9, Section B: 2a, Technical Data 3a(5)(a), Deliverable Data 3e, Data Rights 3f, Data Warranty
Test and Evaluation	DODI 5000.2/SECNAVINST 5000.2A Part 8: 2d(1), Hardware/Software 2d(2), Software Maturity 4d, Hardware/Software Alterations 4e, Ship & Satellite Systems
Work Breakdown Structure	DODI 5000.2 Part 6, Section B: 2a(2), Hardware/Software 3a(1)(a), MIL-STD-881 (reference (o)) 3a(1)(b), WBS Extensions

Table 2. SELECTED MILESTONE DOCUMENTS AND PERIODIC REPORTS

SELECTED MILESTONE DOCUMENTS AND PERIODIC REPORTS	REFERENCE
Defense Acquisition Executive Summary	DoD 5000.2-M Part 16, Section C, Preparation Instructions: 2a, Software Performance 2c(1), Logistics Requirements 2h, Hardware/Software Part 16, Section F, Preparation Procedures: 1a, Software Performance
Integrated Program Summary (IPS)	DoD 5000.2-M Part 4, Section A: 1b(2), Military and Commercial NDI 1c(2), Military and Commercial NDI 2e, System Security
Mission Need Statement (MNS)	DoD 5000.2-M Part 2, Attachment 1: 5, Standards, Interoperability, Interfaces, and Security
Operational Requirements Document (ORD)	DoD 5000.2-M Part 3, Attachment 1: 5d, Computer Resources 6, Standardization/Interoperability 6a, Computer Network Support 6c, Standardization/Interoperability
Program Office and Independent Life-Cycle Cost Estimates	DoD 5000.2-M Part 15, Attachment 1: 1d, System Software (DemVal/EMD) Part 15, Attachment 2: 1d, System Software (Prod/Deploy) Part 15, Attachment 3: 3d, Software Maintenance (Ops/Spt)
Risk Assessment (Annex D to the IPS)	DoD 5000.2-M Part 4, Section E, Annex D: 1, Hardware/Software Risk
System Threat Analysis	DoD 5000.2-M Part 5, Attachment 1: 4b, Security Concept

Table 3. SELECTED PROGRAM PLANS

SELECTED PROGRAM PLANS	REFERENCE
Acquisition Plan (AP)	DON Acquisition Planning Guide (reference (p)) (SECNAVINST 5000.2A, Part 24: 2a, DON Acquisition Planning Guide)
Computer Resources Life Cycle Management Plan (CRLCMP)	SECNAVINST 5000.2A Part 24, Attachment 2: All paragraphs
Configuration Management Plan (CMP)	MIL-STD-973 CMP DID (reference (l)) (SECNAVINST 5000.2A Part 24: 2d, MIL-STD-973 CMP DID)
Human System Integration Plan (HSIP)	SECNAVINST 5000.2A Part 24, Attachment 1: 3a, Acquisition Strategy 4e, System Safety 5a(5), System Safety 5d(5), Safety
Integrated Logistics Support Plan (ILSP)	SECNAVINST 5000.2A Part 24, Attachment 3: 7, Technical Data 8, Training Support 9, Computer Resources Support 12, Design Interface 13, Configuration Management, Quality Assurance, Safety, and Standardization
Logistics Requirements Funding Summary (LRFS) (Annex B to the ILSP)	SECNAVINST 5000.2A Part 24, Attachment 3, Annex B: 2e(5), Computer Resources Support 2e(9), Related Configuration Management
Program Protection Plan (PPP)	SECNAVINST 5000.2A Part 24, Attachment 4: 2, Threats & Vulnerabilities 3, Countermeasures 5, Systems Security Engineering Plans All paragraphs related to INFOSEC
Software Development Plan (SDP)	DOD-STD-2167A SDP DID (reference (h)) (SECNAVINST 5000.2A Part 24: 2f, DOD-STD-2167A SDP DID)
Systems Engineering Master Plan (SEMP)	MIL-STD-499 SEMP DID (reference (q)) (SECNAVINST 5000.2A Part 24: 2b, MIL-STD-499 SEMP DID)

SELECTED PROGRAM PLANS	REFERENCE
Technology Assessment & Control Plan (TA&CP)	SECNAVINST 5000.2A Part 24, Attachment 5: 3, Military Critical Technologies List 4c, Hardware and Software Components
Test & Evaluation Master Plan (TEMP)	DoD 5000.2-M TEMP FORMAT (SECNAVINST 5000.2A Part 24: 2j, DoD 5000.2-M TEMP FORMAT)
Training Development Plan (TDP)	SECNAVINST 5000.2A Part 24: 2i, FORMAT
User's Logistics Support Summary (ULSS) (Annex A to the ILSP)	SECNAVINST 5000.2A Part 24, Attachment 3, Annex A: 11, Software Support Activity

Table 4. SPECIFIC POLICY AREAS

SPECIFIC POLICY AREAS	BASIC REQUIREMENT REFERENCE
Computer Resources Life-Cycle Management Plan (CRLCMP)	DODI 5000.2, Part 6, Section D, 3a; SECNAVINST 5000.2A, Part 24, Attachment 2
Delegation of Procurement Authority/ Warner Amendment	DODI 5000.2, Change 1/SECNAVINST 5000.2A, Part 6, Section D, 3g; SECNAVINST 5231.1C (reference (g))
DOD-STD-2167 and DOD-STD-2168	DODI 5000.2, Part 6, Section D, 3b(5)
Environmental Requirements	MIL-STD-2036 (reference (r)) MIL-STD-5400 (reference (s))
Information System Security	DODI 5000.2, Part 6, Section J; SECNAVINST 5239.2 (reference (j))
Integrated System Development (ISD)	DODI 5000.2, Part 6, Section D, 3b
Post Deployment Software Support (PDSS)	DODI 5000.2, Part 6, Section D, 3b(6)
Programming Languages	DODI 5000.2, Change 1, Part 6, Section D, 3e
Reserve Margins	DODI 5000.2, Part 6, Section D, 3b(2)
Software Engineering Environment (SEE)/ Computer Aided Software Engineering (CASE)	DODI 5000.2, Part 6, Section D, 3b(3)
Software Executive Official	DODI 5000.2/SECNAVINST 5000.2A, Part 6, Section D, 3f
Software Metrics	DODI 5000.2, Part 6, Section D, 3c
Software Test Management	DODI 5000.2, Part 6, Section D, 3d